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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/814,081	03/31/2004	Wu Chou	503038-A-01-US (Chou)	5517
7590 Ryan, Mason & Lewis, LLP 90 Forest Avenue Locust Valley, NY 11560			EXAMINER AZAD, ABUL K	
			ART UNIT 2626	PAPER NUMBER
			MAIL DATE 10/10/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/814,081

Applicant(s)

CHOU ET AL.

Examiner

ABUL K. AZAD

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 and 14-18 is/are rejected.
- 7) ☒ Claim(s) 10-13 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 June 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- ☐ Notice of Informal Patent Application
- ☐ Other: _____

DETAILED ACTION

1. Claims 1-18 are pending in this Office Action.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Second et al. (6,405,162).

As per claim 1, Second teaches, “a method of processing a communication in a communication system”, the method comprising the steps of:

“identifying a plurality of words contained within the communication” (Abstract);

“and processing the plurality of words utilizing a joint classifier configured to determine at least one category for the plurality of words based on application of a combination of word information and word class information to the plurality of words” (col. 11, lines 4-18).

As per claim 2, Second teaches, “wherein the joint classifier is implemented at least in part in a processor-based device of the communication system” (Section E. Miscellaneous).

As per claim 3, Second teaches, “wherein a natural language call routing element of the switch routes the communication to a particular one of a plurality of

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destination terminals of the system based on the determined category" (section D. Application).

As per claim 4, Second teaches, "wherein an automatic word class clustering algorithm is utilized to generate the word classes from at least one training corpus" (col. 2, line 57 to col. 3, line 10).

As per claim 5, Second teaches, "wherein one or more of the words and word classes utilized to provide the respective word information and word class information are selected using information gain based term selection" (col. 3, lines 1-30).

As per claim 6, Second teaches, "wherein the information gain based term selection determines an information gain value for each of a plurality of terms, each of the terms comprising a word or a word class, the information gain value being indicative of entropy variations over a plurality of possible categories, and being determined as a function of a perplexity computation for an associated classification task" (col. 3, lines 1-30).

As per claim 7, Segoned teaches, "wherein the combination of word information and word class information is generating by appending a class corpus to a word corpus" (col. 2, line 57 to col. 3, line 10).

As per claim 8, Second teaches, "wherein the combination of word information and word class information is generated by joining sets of multiple words with corresponding sets of word classes" (col. 11, lines 4-18).

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As per claim 9, Segond teaches, "wherein the combination of word information and word class information is generated by interleaving individual words with their corresponding word classes" (col. 11, lines 4-18).

As per claim 14, Segond teaches, "wherein the joint classifier comprises a joint latent semantic index classifier" (col. 11, lines 4-18).

As per claims 15-18, they are interpreted and thus rejected for the same reasons set forth in the rejection of claims 1-9 and 14.

Allowable Subject Matter

4. Claims 10-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Abul K. Azad** whose telephone number is **(571) 272-7599**. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Patric Edouard**, can be reached at **(571) 272-7603**.

Any response to this action should be mailed to:

Commissioner for Patents

P.O. Box 1450

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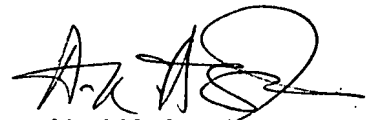
Or faxed to: **(571) 273-8300**.

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Hand-delivered responses should be brought to **401 Dulany Street, Alexandria, VA-22314** (Customer Service Window).

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September 28, 2007



Abul K. Azad
Primary Examiner
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